

**(19) World Intellectual Property  
Organization  
International Bureau**



1. THESE QUESTIONS ARE ANSWERED BY THE PERSONS WHOSE NAMES ARE IN THE CIRCLES

**(43) International Publication Date**  
**23 June 2005 (23.06.2005)**

## PCT

**(10) International Publication Number**  
**WO 2005/056007 A1**

**(51) International Patent Classification<sup>7</sup>: A61K 31/415, A61P 35/00**

**(21) International Application Number:** PCT/FI2004/000717

**(22) International Filing Date:**  
26 November 2004 (26.11.2004)

**(25) Filing Language:** English

**(26) Publication Language:** English

(30) Priority Data: 20031793 9 December 2003 (09.12.2003) FI

(71) Applicant (for all designated States except US): BIOCIS  
PHARMA OY [FI/FI]; Itäinen Pitkätie 4, FI-20520  
Turku (FI).

(72) Inventors; and

(75) **Inventors/Applicants (for US only):** LEINO, Lasse [FI/FI]; Muonarengintie 2, FI-21160 Merimasku (FI). LAIHIA, Jarmo [FI/FI]; Vaalantie 69, FI-21420 Lieto (FI).

(74) Agent: **ÖHMAN, Ann-Marie**; Kaivokatu 15 B 23,  
FI-20520 Turku (FD).

**(81) Designated States (unless otherwise indicated, for every kind of national protection available):** AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

**(84) Designated States (unless otherwise indicated, for every kind of regional protection available):** ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Declaration under Rule 4.17:**

— *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations*

**Published:**

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**(54) Title: THE USE OF UROCANIC ACID BEING ABLE TO ACIDIFY THE CELL CYTOPLASM AND FOR PREVENTING OR HALTING CELLULAR PROLIFERATION IN A PERSON**

**(57) Abstract:** This invention relates to the use of urocanic acid or another pharmaceutically acceptable agent being able to acidify the cell cytoplasm, for the manufacture of a pharmaceutical composition useful for causing inhibition or halting of transformed or non-transformed cell proliferation in a person or an animal, wherein an effective amount of said agent is administered in an essentially non-dissociated form to the person or animal. This invention also concerns the use of said agent as an enhancer for other therapeutically active agents. The invention also concerns a pharmaceutical composition.

**WO 2005/056007 A1**